

ABSTRACT OF THE DISCLOSURE

A receiver involved in high-speed data transmission includes a decision system. The decision system calculates a value of an input signal and holds the value as a tentative value. The decision system calculates an error value, amplifies the error value, and holds the amplified error value as a corrected value. The decision system determines whether the amplified error value is within a marginal range. The decision system also determines whether adjacent values to the value indicate the input signal was in transition from a positive to negative state, or a negative to positive state. If the amplified error values is within a marginal range and the input signal was in transition from a positive to negative state, or a negative to positive state, then the decision system overrides the tentative value with the corrected value.